

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	10/529470	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 17:14
L2	2	"6125708".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 17:14
S2	7854	(acoustic\$4 or sonic\$4 or sound\$3 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$3) same "tear-off strip" or "tear-off thread" same "material web" or "film web"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/07 14:48
S3	532006	transmitter or transducer near5 lobe or response adj1 curve	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/07 14:48
S4	79	S2 and S3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/23 16:38
S5	2	"4682038".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/23 16:39
S6	2	"4363032".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/23 16:39
S7	2	"4901577".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/23 16:39
S8	16	("4682038").URPN.	USPAT	OR	ON	2006/10/29 19:54

## EAST Search History

S9	19	"4682038"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/29 19:48
S10	0	"4682038.PN."	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/29 19:49
S11	0	"4682038.pn."	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/29 19:49
S12	2	"4682038".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/29 19:49
S13	2	"4363032".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/29 19:50
S14	2	"4901577".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/29 19:50
S15	1	"5966904".pn.	USPAT	OR	ON	2006/10/29 19:55
S16	1	"5929337".pn.	USPAT	OR	ON	2006/10/29 20:03
S17	313668	sonic\$4 or sound\$3 or ultrasonic\$4 or ultrasound\$3 near5 transmitter or transducer same lobe or response adj2 curve same width near5 strip	USPAT	OR	ON	2006/10/29 20:07
S18	26	S17 and "tear-off strip"	USPAT	OR	ON	2006/10/29 20:05
S19	313654	sonic\$4 or sound\$3 or ultrasonic\$4 or ultrasound\$3 near5 transmitter or transducer same lobe or response adj2 curve same width near5 "tear-off strip"	USPAT	OR	ON	2006/10/29 20:08
S20	117244	"73"/\$.ccls.	USPAT	OR	ON	2006/10/29 20:07
S21	14626	S19 and S20	USPAT	OR	ON	2006/10/29 20:07
S22	158637	transmitter or transducer same lobe or response adj2 curve same width near5 "tear-off strip"	USPAT	OR	ON	2006/10/29 20:08

## EAST Search History

S23	157822	transmitter or transducer near3 (lobe or response) adj2 curve same width near5 "tear-off strip"	USPAT	OR	ON	2006/10/29 20:08
S24	0	(transmitter or transducer) adj2 (lobe or response) near1 curve same width near5 "tear-off strip"	USPAT	OR	ON	2006/10/29 20:09
S25	0	(transmitter or transducer) adj2 (lobe or response) near2 curve same width near5 "tear-off strip"	USPAT	OR	ON	2006/10/29 20:09
S26	0	(transmitter or transducer) adj3 (lobe or response) near2 curve same width near5 "tear-off strip"	USPAT	OR	ON	2006/10/29 20:09
S27	58	(transmitter or transducer) adj3 (lobe or response) near2 curve	USPAT	OR	ON	2006/10/29 20:19
S28	22662	(acoustic\$4 or sonic\$4 or ultrasonic\$4 or sound\$3 or ultrasound\$3 or supersonic\$4 or supersound\$3) same film nera3 wrapper same reel same pressure near3 roll same pack same "blank cutting unit"	USPAT	OR	ON	2006/10/29 20:25
S29	2563	transmitter near5 "aperture stop" same gap or "outlet area"	USPAT	OR	ON	2006/10/29 20:22
S30	18	S28 and S29	USPAT	OR	ON	2006/10/29 20:22
S31	0	(acoustic\$4 or sonic\$4 or ultrasonic\$4 or sound\$3 or ultrasound\$3 or supersonic\$4 or supersound\$3) same film near3 wrapper same reel same pressure near3 roll same "cigarette pack" same "blank cutting unit"	USPAT	OR	ON	2006/10/29 20:25
S32	0	(acoustic\$4 or sonic\$4 or ultrasonic\$4 or sound\$3 or ultrasound\$3 or supersonic\$4 or supersound\$3) same film near3 wrapper same reel same "cigarette pack"	USPAT	OR	ON	2006/10/29 20:26
S33	0	(acoustic\$4 or sonic\$4 or ultrasonic\$4 or sound\$3 or ultrasound\$3 or supersonic\$4 or supersound\$3) same wrapper same reel same "cigarette pack"	USPAT	OR	ON	2006/10/29 20:26
S34	0	(acoustic\$4 or sonic\$4 or ultrasonic\$4 or sound\$3 or ultrasound\$3 or supersonic\$4 or supersound\$3) same wrapper same "cigarette pack"	USPAT	OR	ON	2006/10/29 20:26

## EAST Search History

S35	14	(acoustic\$4 or sonic\$4 or ultrasonic\$4 or sound\$3 or ultrasound\$3 or supersonic\$4 or supersound\$3) same "cigarette pack"	USPAT	OR	ON	2006/10/29 20:29
S36	1	"5966904".pn.	USPAT	OR	ON	2006/10/29 20:29
S37	2	("5966904").URPN.	USPAT	OR	ON	2006/10/29 20:30
S38	16754	transmitter and receiver near5 (infrared or ultrasonic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 11:20
S39	2343	transmitter and receiver near5 (infrared or ultrasonic) same (test\$4 or inspect\$4 or monitor\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 11:22
S40	8454518	transmitter and receiver near5 (infrared or ultrasonic) same (test\$4 or inspect\$4 or monitor\$4) material or web	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 11:21
S41	691657	transmitter and receiver near5 (infrared or ultrasonic) same (test\$4 or inspect\$4 or monitor\$4) same material or web	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 11:21
S42	691512	transmitter and receiver near5 (infrared or ultrasonic) same (test\$4 or inspect\$4 or monitor\$4) near3 material or web	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 11:22
S43	1286453	transmitter and receiver near5 (infrared or ultrasonic) same (test\$4 or inspect\$4 or monitor\$4) near3 packag\$4 or strip	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 11:22
S44	122	transmitter and receiver near5 (infrared or ultrasonic) same (test\$4 or inspect\$4 or monitor\$4) near3 (packag\$4 or strip or web or material)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 11:23
S45	227307	"73"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 11:23

## EAST Search History

S46	64	S44 and S45	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 11:23
S47	1895	S38 and S45	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 11:26
S48	64	S44 and S47	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 11:27
S49	698745	infrared or ultrasonic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 11:28
S50	2440231	infrared or ultrasonic same alternat\$4 or replac\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 11:29
S51	3672646	infrared or ultrasonic or ultrasound near3 inspect\$4 or test\$4 or monitor\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 11:29
S52	91287	S45 and S51	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 11:30
S53	3279576	infrared near3 ultrasonic or ultrasound or acoustic near5 inspect\$4 or test\$4 or monitor\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 11:31
S54	83588	S45 and S53	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 11:31
S55	3247046	(laser or light or infrared or acoustic ultrasonic or ultrasound) adj2 inspect\$4 or test\$4 or monitor\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 11:41

## EAST Search History

S56	3247046	(laser or light or infrared) adj2 (acoustic ultrasonic or ultrasound) adj2 inspect\$4 or test\$4 or monitor\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 11:43
S57	82489	S45 and S56	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 11:42
S58	2201018	(laser or light or infrared) adj2 (acoustic ultrasonic or ultrasound) adj2 inspect\$4 or test\$4 or monitor\$4 near3 (transmitter and receiver)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 11:43
S59	64476	S45 and S58	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 11:44
S60	14	S59 and web adj1 roll	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 11:48
S61	22	transmitter and receiver near3 (infrared or ultrasonic or ultrasound or acoustic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 11:54
S62	7	(transmitter and receiver) near3 (ultraviolet infrared or ultrasonic or ultrasound or acoustic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 11:57
S63	165	(transmitter and receiver) near3 (ultrasonic or ultrasound or acoustic) near2 (ultraviolet or infrared or laser or light)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 12:14
S64	67495	(radiation or light) adj2 transmitter and receiver near5 ultrasonic or ultrasound	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 12:14
S65	9559	(radiation or light) adj2 transmitter and receiver	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 12:14

## EAST Search History

S66	67851	S65 and ultrasonic or ultrasound	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 12:15
S67	3554	S45 and S66	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 12:48
S68	4118783	light or radiation or energy adj2 (ultrasonic or infrared or laser or ultrasound or acoustic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 12:53
S69	5854052	light or radiation or energy adj2 (ultrasonic or infrared or laser or ultrasound or acoustic) near4\$4 inspect\$4 or test\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 12:54
S70	5854054	light or radiation or energy adj2 (ultrasonic or infrared or laser or ultrasound or acoustic) near4\$ inspect\$4 or test\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 12:56
S71	227307	"73"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 12:54
S72	93495	S70 and S71	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 12:55
S73	1177731	acoustic\$4 or sonic\$4 or ultrasonic\$4 or sound\$3 or ultrasound\$3 or supersonic\$4 or supersound\$3 same tear near1 strip same material or web same transmitter or transducer near3 receiver	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 12:59
S74	1177841	acoustic\$4 or sonic\$4 or ultrasonic\$4 or sound\$3 or ultrasound\$3 or supersonic\$4 or supersound\$3 same tear near1 strip or tear near1 thread same material or web same transmitter or transducer near3 receiver	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 13:05

## EAST Search History

S75	260561	(ultrasonic or ultrasound) adj2 energy or signal near3 (infrared or optical or infrared or ultraviolet)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 13:09
S76	227307	"73"/\$.cls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 13:07
S77	4890	S75 and S76	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 13:08
S78	8461553	(ultrasonic or ultrasound) adj2 energy or signal near3 (infrared or optical or infrared or ultraviolet) near3 object or material or web	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 13:08
S79	3901432	S77 and position near3 sens\$4 or detect\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 13:08
S80	35831	(ultrasonic or ultrasound) adj2 energy or signal near3 (infrared or optical or infrared or ultraviolet) near3 transmitter	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 13:09
S81	2498	S77 and S80	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 13:11
S82	3840372	alternate same ultrasonic or infrared or light	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 13:12
S83	3840887	equivalent same ultrasonic or infrared or light	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 13:12
S84	698745	ultrasonic or infrared or light near5 "could be used"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 13:13



## EAST Search History

S85	698745	ultrasonic or infrared or light near5 "could be used" near4 alternatively	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 13:13
S86	698745	ultrasonic or infrared or light near3 "could be used" near4 alternatively	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 13:14
S87	20076	S76 and S86	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/30 13:14
S88	7919	(acoustic\$4 or sonic\$4 or sound\$3 or ultrasonic\$4 or ultrasound\$4 or supersonic\$4 or supersound\$3) same "tear-off strip" or "tear-off thread" same "material web" or "film web"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/07 14:48
S89	538551	transmitter or transducer near5 lobe or response adj1 curve	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/07 14:49
S90	80	S88 and S89	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/07 15:42
S91	2	"5966904".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/07 15:25
S92	86933	transmitter near3 curve or lobe	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/07 19:44
S93	2	"6293136".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/07 19:45

## EAST Search History

S94	2	"5821425".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/07 19:45
S95	508773	transmitter or transducer near5 aperture adj2 stop	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 22:21
S96	508769	transmitter or transducer near3 aperture adj2 stop	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 22:28
S97	508769	transmitter or transducer near3 aperture adj1 stop	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 22:21
S98	508769	transmitter or transducer near1 aperture adj1 stop	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 22:22
S99	1347239	ultrasonic\$4 or acoustic44 or sonic\$4 or sound\$3 or ultrasound\$3 or supersonic\$4 or supersound\$3 same defect or fault or flaw	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 22:23
S10 0	99576	S98 and S99	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 22:23

## EAST Search History

S10 1	116	S100 and packag\$4 adj2 machine	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 22:23
S10 2	228411	"73"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 22:24
S10 3	228411	"73"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 22:25
S10 4	6256	S98 and S99 and S103	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 22:26
S10 5	0	S104 and tear-off near3 strip	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 22:26
S10 6	771285	S104 and strip or thread	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 22:26
S10 7	11	S104 and "material web"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 22:26

## EAST Search History

S10 8	509963	transmitter or transducer near3 stop	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 22:28
S10 9	12552	S103 and S108	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 22:28
S11 0	23	S109 and "material web"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/17 22:28
S11 1	170945	ultrasonic adj1 transmitter or transducer near2 "central gap" or "circular cross section"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 13:05
S11 2	6995	ultrasonic adj1 transmitter or transducer near2 circular	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 13:06
S11 3	167615	"central gap" or "circular cross section"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 13:06
S11 4	242	S112 and S113	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 13:06

## EAST Search History

S11 5	228411	"73"/\$.cls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 13:06
S11 6	57	S114 and S115	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/18 16:32